

>33358 cDNA ORF 75-1046

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Figure 1A

>33358 amino acids

MEDGPVFGFKNIFITMFATFFFFKLLIKVFLALLTHFYIVKGNRKEAARIAEEIYGGISDCWADRSPLH
EAAAQGRLLALKTLIAQGVNVLVTINRVSSLHEACLGGHVACAKALLENGAHVNGVTVHGATPLFNACC
SGSAACVNVLLEFGAKAQLEVHLASPIHEAVKRGRHRECMEILLANNVNIDHEVPQLGTPLYVACTYQRVD
CVKKLLELGASVDHGQWLDTPHAAARQSNVEVIHLLTDYGANLKRRNAQGKSALDLAAPKSSVEQALLL
REGPPALSQLCRLCVRKCLGRACHQAIHKLHLPEPLERFLLYQ.

Figure 1B

	Cong. Heart Failure				Fetal Heart		Cong. Heart Failure (CHFd)					
	1	2	3	4	5	6	7	8	9	10	11	12
A	HMVEC1	Fetal Brain	Brain Epithelium Mx (BLAS 2B)	Mesangial	Heart Epithelium Mx (BLAS 2B)	EPs 24 hr Osteoblasts	A2780 WT	UCLA R Lung Carcinoma	Embryonic myo cells	Testes (random primed)	Testes (random primed)	Placenta (random primed)
B	HMVEC1	Brain Epithelium	Heart Epithelium Mx (BLAS 2B)	UCLA R	Heart Epithelium Mx (BLAS 2B)	Burkitt's Lymphoma	A2780 ADR	UCLA S Lung Carcinoma	Embryonic Keratinocytes	M180 IL-1 Cervical Carcinoma	Testes	Mammary Gland (random primed)
C	HI 60/S	Astrocyte	Cerebellum	Heart Epithelium	Heart Epithelium Mx (BLAS 2B)	Mammary Epithelium	Fetal Splen	p65 Con +/-	SEC 25 CDIP Lung Squamous Cell Carcinoma	M180 Control	RAJI (Burkitt's Lymphoma) B cells	Spleen Intestine (random primed)
D	E-937/A10p1 0	Prostatic Epithelium	Prostate	Prostatic Epithelium	Heart Epithelium Mx (BLAS 2B)	Uterine Smooth Muscle treated	Esophagus	p65 IL-1 +/-	SEC 25 W1 Lung Squamous Cell Carcinoma	MCP-1 Mast cell line	ST486 (Vamploina B cells)	Fetal Liver (random primed)
E	E-937/A10p5 0	Primary Osteoblast	Neuro Endothelial	Bone Marrow	Prostate Smooth Muscle	Umbilical Smooth Muscle treated	Fetal Liver	A549 con	Fetal Hypothalamus	HPKII	HI 60 / Acute Pomyleocyt c Leukemia	Heart (random primed)
F	CaCo	Keratinocyte	Fetal Kidney	Cong. Heart Failure (CHFb)	Div. cell	Bronchial Smooth Muscle	Fetal Skin	A549 IL-1	T cells, CD3 treated	Lung (random primed)	Uterine Smooth Muscle treated (random primed)	Stomach (random primed)
G	HeLa	Melanocytes	Fetal Liver	Adrenal Gland	EPs 24 hr Osteoblasts	W1 LNCaps Casodex	Fetal Adrenal Gland	Fetal Testes	T cells, CD3, IL-4/IL-10 treated	Uterine Smooth Muscle treated (random primed)	Spleen (random primed)	
H	HI 60/Adi	Coronary Smooth Muscle Cells	Fetal Lung	Fetal Thymus	EPs 24 hr Osteoblasts	W1 LNCaps Testosterone	Midbrain Pituitary	Pulmonary Artery Smooth Muscle	T cells, CD3 IL-2/IFN- γ treated	Fetal Brain (random- primed)	Skin/ Adipose	Liver (random- primed)

*All random-primed libraries in /AP EcoRI/XbaI unless otherwise indicated

	1	2	3	4	5	6	7	8	9	10	11	12
A	Kidney (random primed)	Testes	Prostate	HMVEC control (mast cell line)	Fetal Fetal Spinal Cord	CH1127	erythroblasts (yHMc)	spinal cord (ION3)	HRVEC TGI b (umbilical endothelium)	HUVEC Hypoxia (umbilical endothelium)	Spinal Chord (ION 3)	
B	Brain (random primed)	K563 (RBC line)	Uterus	HLp G2 consulmum	Neural Control	HT1221	skin (P1211 212)	HUVEC control (richPa)	human colon inflamm bowel dis	G361 cell line	Adult Bone Marrow CD34+ Cells	

Heart (random-primed)

Skeletal muscle - (random-primed)

Figure 2A

05334370-064804

Heart


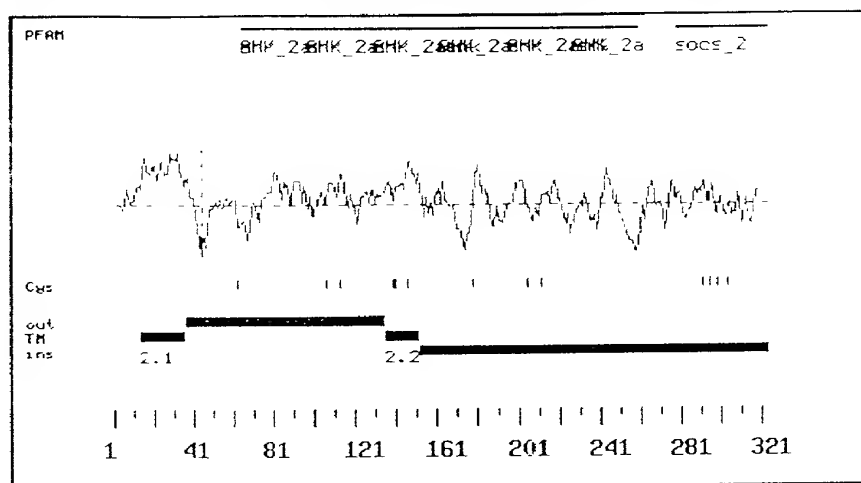
C	HPK (random primed)		Mammary Gland	Normal fibroblasts (C1H128)	Colon to Liver Metastasis (C1H128)	normal fibroblasts	BMC (D344) (pshMc)	W138 20hr serum starved emb. Lung	Th1 Cells	HUVEC untreated (umbilical endothelial)
D	Livers (random primed)	Liver	Spleen	Normal Ovarian Epithelium	Colon to Liver Metastasis (C1H133)	PTH Osteoblasts (C1H133)	ovarian ascites (pshOb)	lung squamous cell carcinoma	Th2 Cells	IBD Colon (WPM 23)
E	Thymus (random primed)		Small Intestine	Normal Megakaryocytes	Colon Carcinoma (NDR109)	lung adenocarcinoma (P1124)	IBD colon (W1 M6) (ghna)	brain subcortical white matter	Prostate Tumor Xenograft X12	Trigeminal Ganglia
F	9 week Fetus	Thymus	Retinal Pigmentosa Epithelium	Bone Marrow	Colon Carcinoma (NDR105)	lung squamous cell carcinoma P11299	Cervical Cancer (pshCe)	normal prostate (ziplo x)	Prostate Tumor Xenograft K10	Lumbosacral Spinal Chord
G	A549 control (random primed)	Stomach	Retina	Th1 induced T cell	Colon Carcinoma (NDR87)	d8 dendritic cells	Spinal cord (ghbc)	ovarian epithelium tumor	Prostate Cancer to Liver Metastasis J1113	1 umbilical Dorsal Root Ganglia
H	Salivary Gland	Skeletal Muscle	BMC (1 mouse cell line)	Th2 induced T cell	Colon Carcinoma (NDR097)	Megakaryocytes (ghbc)	DRG (ION6 7 8) (ghvc)	HUVEC 1 name (umbilical end)	Prostate Cancer to Liver Metastasis J1114	Dorsal Root Ganglia (ION 6 7 & 8)

Figure 2B

Analysis of 33358 (323 aa)



>33358
 MEDGPVIFYGFKNIFITMFATFFFFFKLLIKVFLALLTHFYIVKGNRKEAARIAEEIYGGIS
 DCWADRSPLHEAAAQGRLLALKTLIAQGVNVNLVTINRVSSLHEACLGGHVACAKALLEN
 GAHVNGVTVHGATPLFNACCSGSAACVNVLLEFGAKAQLEVHLASPIHEAVKRGHRECME
 ILLANNVNIDHEVPQLGTPLYVACTYQRVDCVKKLLELGASVDHGQWLDTPLHAAARQSN
 VEVIHLLTDYGANLKRNRNAQGKSALDLAAPKSSVEQALLLREGPPALSQLCRLCVRKCLG
 RACHQAIHKLHLPEPLERFLLYQ

FIGURE 3